

USR-G806s Specification

4G industrial LTE VPN router



The USR-G806s is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide an easy, reliable, secure Internet connectivity and high-speed data access for equipment networking. With technologies such as 4G wireless wide area network ,Dual Ethernet ports (LAN + WAN),Wi-Fi wireless local area network it provides uninterrupted multiple network access capabilities.

The G806s is a sister product of the G806 series offering a choice of (3-wire) RS485/232. This means that RS485/232 devices, such as electricity meters, programmable logic controllers including Modbus RTU equipment can connect to the internet directly through the router. The product adopts high-performance CPU, working frequency up to 580MHz, based on a variety of hardware interfaces and powerful software functions, users can quickly build their own application network.

The G806s occupies a very small footprint and supports industrial protocols and accessories to ease integration which is suitable for large-scale distributed industrial applications, such as smart express cabinets, charging piles, CCTV, ATM machines, ticket machines, traffic management, vending machines, medical device networking, tower monitoring, lifts monitoring, digital signage, electricity, water conservancy, environmental protection, etc.

Product Features

Stable And Reliable

- Metal shell, IP30 protection. Ethernet ports support 1.5KV isolation transformer protection.
- Wide operating temperature. Wide voltage input, reverse polarity protection.
- ESD,Surge,EFT protection.
- Embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability.

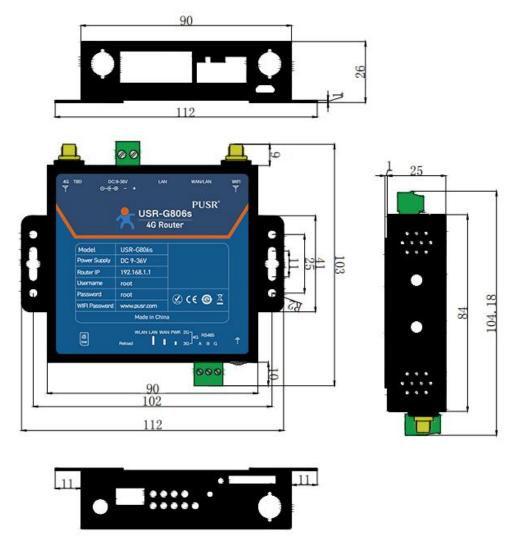
Uninterrupted network access

- Supports 2G/3G/4G network all over the world ,supports APN/VPDN sim card.
- Failover between 4G and WAN, ensures automatic switch to alternative backup connection, effectively ensuring uninterrupted data transmission.
- VPN tunnel detection: maintains stable connection of the VPN tunnel, ensuring continuous transmission.
- Multi-layer link detection mechanism, automatic redial and recovery.

Rich functions

- Supports PUSR cloud platform to facilitate remote monitoring and central management of large-scale device networks.
- · Supports remote monitoring, upgrade and parameter configuration, remote access to the built-in web pages.
- Supports email alarm, SMS alarm, abnormal alarm push in time.
- Dual Ethernet ports, WAN/LAN.
- Multiple VPN protocols.
- Wall-mounting and DIN-rail mounting options available, easy to install.
- Supports IPsec VPN, PPTP,L2TP, OPENVPN,GRE etc., ensuring secure data transmission.
- Supports firewall functions including NAT, access control, DDoS defense, IP-MAC binding, etc., protecting the network against external attacks.
- Supports WLAN, scaling more devices access.
- · Supports APN automatic inspection ,mode switch ,SIM information display, supports private sim card.
- Supports DDNS,PPPOE,DHCP,Static IP.
- Allows multiple network management methods including SSH, WEB, TELNET and a network management platform.
- · Provides wireless data communications between field serial devices and the central control system.
- · Supports user-defined register & heartbeat packets, transparent TCP/UDP protocol, multi-center.

Dimensions



USR-G806s Dimensions

- Unit: mm.
- Installation Method: 35mm DIN-rail mounting, Panel mounting
- Dimensions: 112 * 84.0* 25.0mm(L*W*H).Power terminal, serial terminal, antenna connector are not included.

Specifications

Hardware Specifications				
Callula:	Antono	1 x SMA-K		
Cellular Interface	Antenna	Note: North America models: 2 x SMA 4G antenna connectors.		
	SIM card	1 x (3 V & 1.8 V) Standard 2FF SIM, drawer-type sim card slots		
	1 x WAN port (can be config	jured to LAN) 10/100 Mbps, compliance with IEEE 802.3, supports auto		
Ethernet	MDI/MDIX,1.5KV network isolation transformer protection			
	1 x LAN port, 10/100 Mbps	, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto		
	MDI/MDIX,1.5KV network isolation transformer protection			
		PWR: always on after powered on		
		WLAN: always solid on when WiFi is enabled and working properly		
		WAN: solid when cable is connected, blinking when data is transmitting		
		and receiving		
		LAN: solid when cable is connected, blinking when data is transmitting		
Indicators		and receiving		
Indicators		2/3/4G mode indicator:		
	LED	2G led is on after connected to 2G network		
	LLD	3G led is on after connected to 3G network		
		Both leds is on after connected to 4G network		
		Signal strength: 4 solid bars,strongest signal		
	Standards & Frequency	IEEE 802.11b/g/n,2.4GHz, AP mode		
	Data speed	IEEE 802.11b/g,maximum 54Mbps.IEEE 802.11n,maximum 150Mbps		
WiFi Interface	Antenna	1 x SMA-K		
	Transmission distance	80 meters by line of sight.Actual transmission distance depends on		
	Transmission distance	environment of the site.		
	Adaptor	DC 12V/1A		
	Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or 2 PIN		
	CONTICULOR	5.08mm industrial terminal block,reverse polarity protection		
Power Supply	Input voltage	DC 9~36V		
	Working power	Average 270mA/12V		
	RS485/RS232(alternative)	3 PIN 3.81mm industrial terminal block.		
		Note:RS485 default,RS232 please contact sales.		
Serial Interface	Baud rate(bps)	1200,2400,4800,9600,19200,38400,57600,115200,230400		
Conar interruce	Data bits	8		
	Stop bits	1,2		
	Parity	NONE,ODD,EVEN		
	Housing	Metal shell,IP30		
	Dimensions	112.0*84.0*25.0 mm(L*W*H)		
Physical	Installation method	Panel mounting, DIN-Rail mounting		
Characteristics		Static IEC61000-4-2, level 2		
	EMC	Pulsed Electric Field IEC61000-4-4, level 2		
		Surge IEC61000-4-5, level 2		

	Operating temperature	-20°C∼+70°C
	Storage temperature	-40°C∼+125°C
	Operating humidity	5%~95%RH (non-condensing)
Others	Reload	Pinhole reset button
	TBD	Debug interface (TTL Level)
	Embedded Watchdog	Device runs self-detection, auto recovers from malfunctions
Certificate	CE,CCC	

Software Specifications				
Network Connection	WAN protocol	PPP, PPPoE, DHCP client		
	LAN protocol	ARP, DHCP server, NAT		
	4G network access	Auto APN/VPDN, private network		
		Access authentication: CHAP/PAP		
	WLAN security	Open system,WPA/WPA2 PSK		
		TKIP/AES encryption		
	IP routing	Static routing		
	Network diagnosis	Ping,route trace,DNS		
	Work mode	NET,HTTPD		
Serial modem	Sockets	4 sockets,4 centers ,TCPS(SOCKA)/TCPC/UDPS/UDPC		
	Modbus RTU toTCP	Support		
	Configuration	Web		
Device	Remote management	Telnet, SSH, AT command, SNMP		
management	DUSD platform	Remote monitoring,remote upgrade,alarming,base station location,remote		
	PUSR platform	access to web pages of the router		
	Failover backup	Failover between 4G and WAN, ensures automatic switch to alternative		
		backup connection		
Security	Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping,		
		Access Control		
	VPN	Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols		
Service	DDNS	Remote access the device through domain name		
	Alarm	Email,SMS		
	Others	NTP client		
		Timing task		

Ordering guide

USR-G806s Ordering Guide				
Model	USR-G806s-EAU			
Region	EMEA&Australia & Latin America & New Zealand			
Frequency	TDD-LTE	B38/B40/B41		
	FDD-LTE	B1/B3/B5/B7/B8/B20/B28		
	WCDMA	B1/B5/B8		
	GSM/GPRS/EDGE	850/900/1800MHz		
Model	USR-G806s			
Region	Part of APAC, please confirm the frequencies			
Frequency	TDD-LTE	B38/39/40/41		
	FDD-LTE	B1/B3/B5/B8		
	WCDMA	B1/B8		
	TD-SCDMA	B34/B39		
	EVDO/CDMA1X	CDMA1X/ 1xEV-DO rel.0/ 1xEV-DO rev. A: 800 MHz		
	GSM/CPRS/EDGE	900/1800MHz		

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